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RAW SEQUENCE LISTING DATE: 12/18/2001
PATENT APPLICATION: US/09/826,025 TIME: 16:38:14

Input Set : N:\Crf3\RULE60\09826025.raw
Output Set: N:\CRF3\12182001\I826025.raw

SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT: Chang, Lung-Ji

(ii) TITLE OF INVENTION: Combination Immunogene Therapy

(iii) NUMBER OF SEQUENCES: 25

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Medlen & Carroll, LLP

(B) STREET: 220 Montgomery Street, Suite 2200

(C) CITY: San Francisco

(D) STATE: California

(E) COUNTRY: United States of America

(F) ZIP: 94104

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk

(B) COMPUTER: IBM PC compatible

(C) OPERATING SYSTEM: PC-DOS/MS-DOS

(D) SOFTWARE: PatentIn Release #1.0, Version #1.30

(vi) CURRENT APPLICATION DATA:

C--> **(A) APPLICATION NUMBER: US/09/826,025**

C--> **(B) FILING DATE: 04-Apr-2001**

(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 08/838,702

(B) FILING DATE:

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Ingolia, Diane E.

(B) REGISTRATION NUMBER: 40,027

(C) REFERENCE/DOCKET NUMBER: CHANG-02687

(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: (415) 705-8410

(B) TELEFAX: (415) 397-8338

(2) INFORMATION FOR SEQ ID NO: 1:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 6145 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

GAATTCATAC CAGATCACCG AAAACTGTCC TCCAAATGTG TCCCCCTCAC ACTCCCAAAT 60

TCGCGGGCTT CTGCCTCTTA GACCACTCTA CCCTATTCCC CACACTCACC GGAGCCAAAG 120

CCGCGGCCCT TCCGTTTCTT TGCTTTTGAA AGACCCCACC CGTAGGTGGC AAGCTAGCTT 180

AAGTAACGCC ACTTTGCAAG GCATGGAAAA ATACATAACT GAGAATAGAA AAGTTCAGAT 240

CAAGGTCAGG AACAAAGAAA CAGCTGAATA CCAAACAGGA TATCTGTGGT AAGCGGTTCC 300

TGCCCCGGCT CAGGGCCAAG AACAGATGAG ACAGCTGAGT GATGGGCCAA ACAGGATATC 360

TGTGGTAAGC AGTTCCTGCC CCGGCTCGGG GCCAAGAACA GATGGTCCCC AGATGCGGTC 420

CAGCCCTCAG CAGTTTCTAG TGAATCATCA GATGTTTCCA GGGTGCCCCA AGGACCTGAA 480

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76 AATGACCCTG TACCTTATTT GAACTAACCA ATCAGTTCGC TTCTCGCTTC TGTTCGCGCG 540
78 CTTCCGCTCT CCGAGCTCAA TAAAAGAGCC CACAACCCCT CACTCGGCGC GCCAGTCTTC 600
80 CGATAGACTG CGTCGCCCGG GTACCCGTAT TCCCAATAAA GCCTCTTGCT GTTTGCATCC 660
82 GAATCGTGGT CTCGCTGTTC CTTGGGAGGG TCTCCTCTGA GTGATTGACT ACCCACGACG 720
84 GGGGTCTTTC ATTTGGGGGC TCGTCCGGGA TTTGGAGACC CCTGCCCAGG GACCACCGAC 780
86 CCACCACCGG GAGGTAAGCT GGCCAGCAAC TTATCTGTGT CTGTCCGATT GTCTAGTGTC 840
88 TATGTTTGAT GTTATGCGCC TGCGTCTGTA CTAGTTAGCT AACTAGCTCT GTATCTGGCG 900
90 GACCCGTGGT GGAACTGACG AGTTCTGAAC ACCCGGCCGC AACCCTGGGA GACGTCCCAG 960
92 GGACTTTGGG GGCCGTTTTT GTGGCCCGAC CTGAGGAAGG GAGTCGATGT GGAATCCGAC 1020
94 CCCGTCAGGA TATGTGGTTC TGGTAGGAGA CGAGAACCTA AAACAGTTCC CGCCTCCGTC 1080
96 TGAATTTTTG CTTTCGGTTT GGAACCGAAG CCGCGCGTCT TGTCTGCTGC AGCGCTGCAG 1140
98 CATCGTTCTG TGTTGTCTCT GTCTGACTGT GTTTCTGTAT TTGTCTGAAA ATTAGGGCCA 1200
100 GACTGTTACC ACTCCCTTAA GTTTGACCTT AGGTCACTGG AAAGATGTCG AGCGGATCGC 1260
102 TCACAACCAG TCGGTAGATG TCAAGAAGAG ACGTTGGGTT ACCTTCTGCT CTGCAGAATG 1320
104 GCCAACCTTT AACGTCGGAT GGCCGCGAGA CGGCACCTTT AACCGAGACC TCATCACCCA 1380
106 GGTTAAGATC AAGGTCTTTT CACCTGGCCC GCATGGACAC CCAGACCAGG TCCCCTACAT 1440
108 CGTGACCTGG GAAGCCTTGG CTTTTGACCC CCCTCCCTGG GTCAAGCCCT TTGTACACCC 1500
110 TAAGCCTCCG CCTCCTCTTC CTCCATCCGC CCCGTCTCTC CCCCTTGAAC CTCCTCGTTC 1560
112 GACCCCGCCT CGATCCTCCC TTTATCCAGC CCTCACTCCT TCTCTAGGCG CCGGAATTCC 1620
114 GATCTGATCA AGAGACAGGA TGAGGATCGT TTCGCATGAT TGAACAAGAT GGATTGCACG 1680
116 CAGGTTCTCC GGCCGCTTGG GTGGAGAGGC TATTCGGCTA TGACTGGGCA CAACAGACAA 1740
118 TCGGCTGCTC TGATGCCGCC GTGTTCCGGC TGTCAGCGCA GGGGCGCCCG GTTCTTTTTG 1800
120 TCAAGACCGA CCTGTCCGGT GCCCTGAATG AACTGCAGGA CGAGGCAGCG CGGCTATCGT 1860
122 GGCTGGCCAC GACGGGCGTT CCTTGCGCAG CTGTGCTCGA CGTTGTCACT GAAGCGGGAA 1920
124 GGGACTGGCT GCTATTGGGC GAAGTGCCGG GGCAGGATCT CCTGTCATCT CACCTTGCTC 1980
126 CTGCCGAGAA AGTATCCATC ATGGCTGATG CAATGCGGCG GCTGCATACG CTTGATCCGG 2040
128 CTACCTGCCC ATTCGACCAC CAAGCGAAAC ATCGCATCGA GCGAGCACGT ACTCGGATGG 2100
130 AAGCCGGTCT TGTCGATCAG GATGATCTGG ACGAAGAGCA TCAGGGGCTC GCGCCAGCCG 2160
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136 GTGGCCGGCT GGGTGTGGCG GACCGCTATC AGGACATAGC GTTGGCTACC CGTGATATTG 2340
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142 GGGGTTCGAA ATGACCGACC AAGCGACGCC CAACCTGCCA TCACGAGATT TCGATTCCAC 2520
144 CGCCGCCTTC TATGAAAGGT TGGGCTTCGG AATCGTTTTC CGGGACGCCG GCTGGATGAT 2580
146 CCTCCAGCGC GGGGATCTCA TGCTGGAGTT CTTCGCCCAC CCCGGGCTCG ATCCCCTCGC 2640
148 GAGTTGGTTC AGCTGCTGCC TGAGGCTGGA CGACCTCGCG GAGTTCTACC GGCAGTGCAA 2700
150 ATCCGTCGGC ATCCAGGAAA CCAGCAGCGG CTATCCGCGC ATCCATGCCC CCGAACTGCA 2760
152 GGAGTGGGGA GGCACGATGG CCGCTTTGGT CGACCCGGAC GGGACGCTCC TGCGCCTGAT 2820
154 ACAGAACGAA TTGCTTGCAG GCATCTCATG AGTGTGTCTT CCCGTTTTCC GCCTGAGGTC 2880
156 ACTGCGTGGA TGGAGCGCTG GCGCCTGCTG CGCGACGGCG AGCTGCTCAC CACCCACTCG 2940
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160 CCGAGGGACA CTAGGCTGAC TCCATCGAGC CAGTGTAGAG ATAAGCTTAT CGATTAGTCC 3060
162 AATTTGTTAA AGACAGGATA TCAGTGGTCC AGGCTCTAGT TTTGACTCAA CAATATCACC 3120
164 AGCTGAAGCC TATAGAGTAC GAGCCATAGA TAAAATAAAA GATTTTATTT AGTCTCCAGA 3180
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Input Set : N:\Crf3\RULE60\09826025.raw
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GCAGTTCCTG CCCCGGCTCA GGGCCAAGAA CAGATGGTCC CCAGATGCGG TCCAGCCCTC 3480
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AGGAAGGCAA AATGCCGCAA AAAAGGGAAT AAGGGCGACA CGGAAATGTT GAATACTCAT 5940
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CATATTTGAA TGTATTTAGA AAAATAAACA AATAGGGGTT CCGCGCACAT TTCCCCGAAA 6060
AGTGCCACCT GACGTCTAAG AAACCATTAT TATCATGACA TTAACCTATA AAAATAGGCG 6120
TATCACGAGG CCCTTTCGTC TTCAA 6145

(2) INFORMATION FOR SEQ ID NO: 2:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 67 base pairs

RAW SEQUENCE LISTING DATE: 12/18/2001
PATENT APPLICATION: US/09/826,025 TIME: 16:38:14

Input Set : N:\Crf3\RULE60\09826025.raw
Output Set: N:\CRF3\12182001\I826025.raw

(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: other nucleic acid
(A) DESCRIPTION: /desc = "DNA"
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
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TCGCGAT 67
(2) INFORMATION FOR SEQ ID NO: 3:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 65 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: other nucleic acid
(A) DESCRIPTION: /desc = "DNA"
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
CGATCGCGAG TCGACGCGTG ATCAGGCCTA GGATCCATGG CTCGAGATCT GCGGCCGCAA 60
GCTTA 65
(2) INFORMATION FOR SEQ ID NO: 4:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 33 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: other nucleic acid
(A) DESCRIPTION: /desc = "DNA"
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
AAGCTTGATC ACCACCATGA TTGAACAAGA TGG 33
(2) INFORMATION FOR SEQ ID NO: 5:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 34 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: other nucleic acid
(A) DESCRIPTION: /desc = "DNA"
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
CCGGATCCGT CGACCCCAGA GTCCCGCTCA GAAG 34
(2) INFORMATION FOR SEQ ID NO: 6:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 35 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: other nucleic acid
(A) DESCRIPTION: /desc = "DNA"
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
CCCGGGAAGC TTCCACCATG TGGCTGCAGA GCCTG 35

RAW SEQUENCE LISTING DATE: 12/18/2001
PATENT APPLICATION: US/09/826,025 TIME: 16:38:14

Input Set : N:\Crf3\RULE60\09826025.raw
Output Set: N:\CRF3\12182001\I826025.raw

(2) INFORMATION FOR SEQ ID NO: 7:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 29 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: other nucleic acid
(A) DESCRIPTION: /desc = "DNA"
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
AATGGATCCT ATCACTCCTG GACTGGCTC 29

(2) INFORMATION FOR SEQ ID NO: 8:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 435 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: other nucleic acid
(A) DESCRIPTION: /desc = "DNA"
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
ATGTGGCTGC AGAGCCTGCT GCTCTTGGGC ACTGTGGCCT GCAGCATCTC TGCACCCGCC 60
CGCTCGCCCA GCCCCAGCAC GCAGCCCTGG GAGCATGTGA ATGCCATCCA GGAGGCCCGG 120
CGTCTCCTGA ACCTGAGTAG AGACACTGCT GCTGAGATGA ATGAAACAGT AGAAGTCATC 180
TCAGAAATGT TTGACCTCCA GGAGCCGACC TGCCTACAGA CCCGCCTGGA GCTGTACAAG 240
CAGGGCCTGC GGGGCAGCCT CACCAAGCTC AAGGGCCCCT TGACCATGAT GGCCAGCCAC 300
TACAAGCAGC ACTGCCCTCC AACCCCGGAA ACTTCCTGTG CAACCCAGAT TATCACCTTT 360
GAAAGTTTCA AAGAGAACCT GAAGGACTTT CTGCTTGTCA TCCCCTTTGA CTGCTGGGAG 420
CCAGTCCAGG AGTGA 435

(2) INFORMATION FOR SEQ ID NO: 9:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 30 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: other nucleic acid
(A) DESCRIPTION: /desc = "DNA"
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
TGTGGATCCA CCATGGGACT GAGTAACATT 30

(2) INFORMATION FOR SEQ ID NO: 10:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 35 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: other nucleic acid
(A) DESCRIPTION: /desc = "DNA"
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
TTTGGATCCT TAAAAACATG TATCACTTTT GTCGC 35

(2) INFORMATION FOR SEQ ID NO: 11:
(i) SEQUENCE CHARACTERISTICS:

VERIFICATION SUMMARY DATE: 12/18/2001
PATENT APPLICATION: **US/09/826,025** TIME: 16:38:15

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L:26 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:27 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]

03CO

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:
Assistant Commissioner for Patents
Washington, D.C. 20231 on June 27, 2001.

David Saliwanchik
David R. Saliwanchik, Patent Attorney

REQUEST TO USE CRF FROM PRIOR APPLICATION AND STATEMENT
Examining Group
Patent Application
Docket No. CNG-100D1
Serial No. 09/826,025

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit	:	1632
Applicant	:	Lung-Ji Chang
Serial No.	:	09/826,025
Filed	:	April 4, 2001
For	:	Combination Immunogene Therapy

Box SEQUENCE
Assistant Commissioner for Patents
Washington, D.C. 20231

REQUEST TO USE COMPUTER READABLE FORMAT FROM PRIOR APPLICATION AND STATEMENT UNDER 37 CFR §1.821

Sir:

It is respectfully requested that the computer readable format of patent application Serial No. 08/838,702 entitled "Combination Immunogene Therapy," filed April 9, 1997 by the applicant, Lung-Ji Chang, also be used as the computer readable format for the above-identified patent application. I hereby certify that the sequence listing in the subject application and the sequence listing in application Serial No. 08/838,702 contain identical sequence information and that the paper and computer readable copies contain the same information.

A Notice to Comply with Requirements for Patent Applications Containing Nucleotide Sequence and/or Amino Acid Sequence Disclosures was received from the Patent Office, and a copy of that Notice is attached herewith.

Respectfully submitted,

David Saliwanchik

David R. Saliwanchik
Patent Attorney
Registration No. 31,794
Phone No.: 352-375-8100
Fax No.: 352-372-5800
Address: 2421 N.W. 41st Street, Suite A-1
Gainesville, FL 32606-6669

DRS/sl
Attachment: copy of Notice to Comply with Requirements and/or Patent Applications Containing Nucleotide Sequence and/or Amino Acid Sequence Disclosures